

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072219\
 Data File : VD063176.D
 Acq On : 22 Jul 2019 14:52
 Operator : VA/AP
 Sample : K3868-07
 Misc : 5.59g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2

Quant Time: Jul 23 07:49:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	848119	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1201325	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1037689	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	494035	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	659034	62.38	ug/l	0.01
Spiked Amount 50.000			Recovery	=	124.76%	
35) Dibromofluoromethane	6.93	113	729623	60.98	ug/l	0.01
Spiked Amount 50.000			Recovery	=	121.96%	
50) Toluene-d8	10.42	98	1465953	57.04	ug/l	0.02
Spiked Amount 50.000			Recovery	=	114.08%	
62) 4-Bromofluorobenzene	13.56	95	606148	50.98	ug/l	0.01
Spiked Amount 50.000			Recovery	=	101.96%	

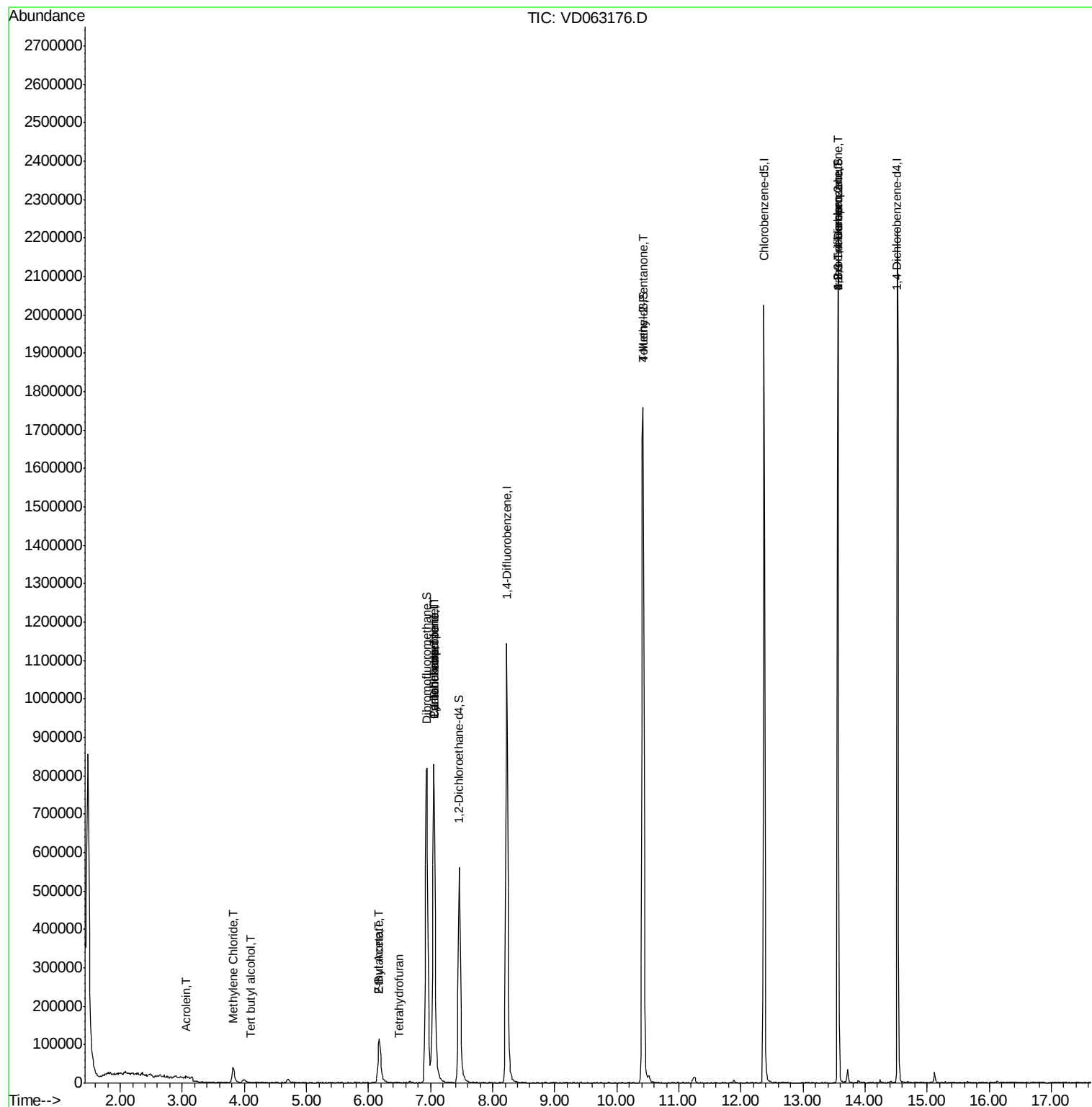
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	206	Below Cal	#	43
3) Chloromethane	1.74	50	944	Below Cal	#	48
5) Bromomethane	2.14	94	1998	Below Cal	#	13
11) Tert butyl alcohol	4.10	59	1268	2.080	ug/l #	77
13) Acrolein	3.07	56	188	1.022	ug/l #	1
18) Methyl Acetate	3.63	43	180	Below Cal	#	63
20) Methylene Chloride	3.82	84	22614	2.346	ug/l	88
25) 2-Butanone	6.18	43	9538	3.914	ug/l #	61
29) Tetrahydrofuran	6.48	42	1389	1.257	ug/l #	33
31) Cyclohexane	7.05	56	19004	1.890	ug/l #	5
36) 1,1-Dichloropropene	7.05	75	66764	4.941	ug/l #	47
37) Ethyl Acetate	6.18	43	9539	1.650	ug/l #	60
38) Carbon Tetrachloride	7.06	117	85268	4.153	ug/l #	13
51) 4-Methyl-2-Pentanone	10.41	43	9411	1.712	ug/l #	1
76) 1,2,3-Trichloropropane	13.56	75	265430	34.926	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.56	75	286887	143.352	ug/l #	1

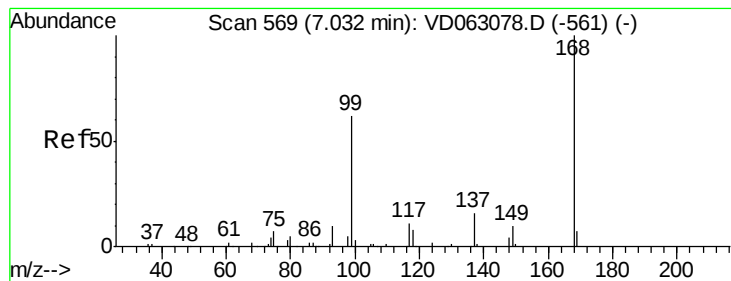
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD072219\
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampleID :

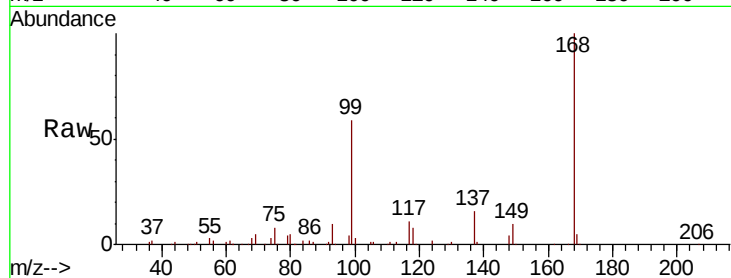
TP-2

Tot Ion:168 Resp: 848119

Ion Ratio Lower Upper

168 100

99 59.2 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

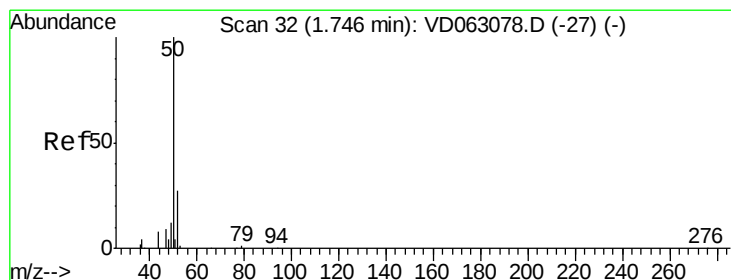
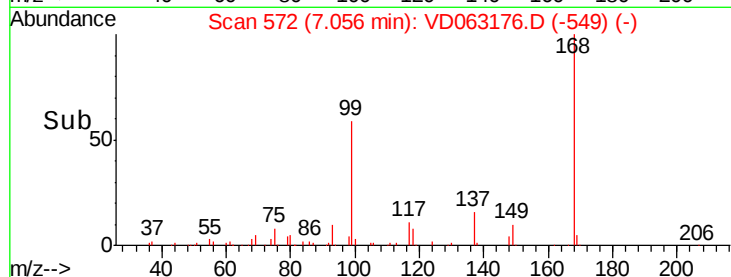
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063176.D

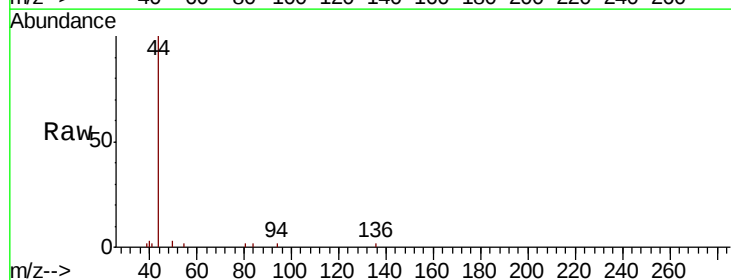
Acq: 22 Jul 2019 14:52

Tgt Ion: 50 Resp: 944

Ion Ratio Lower Upper

50 100

52 0.0 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

800

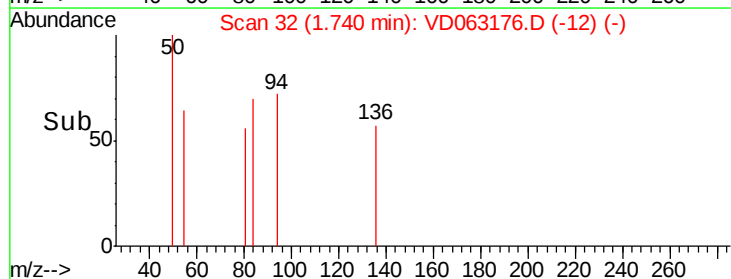
600

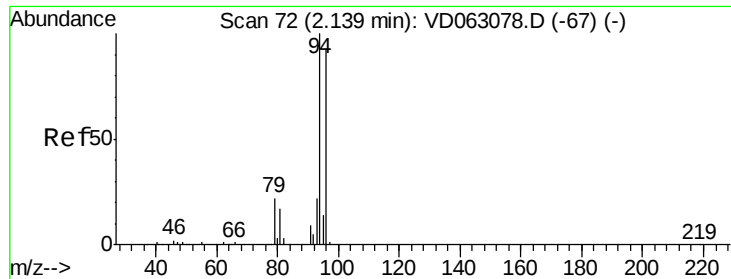
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.14 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampled :

TP-2

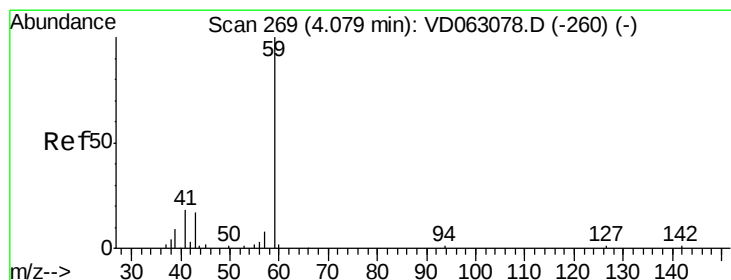
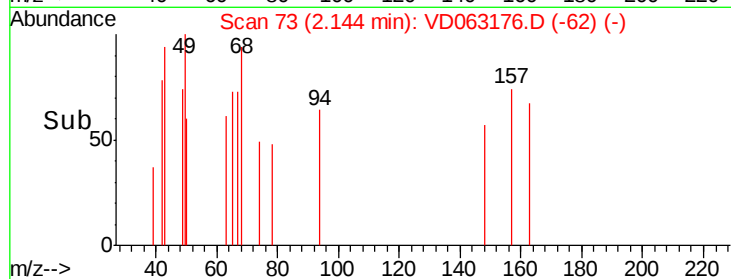
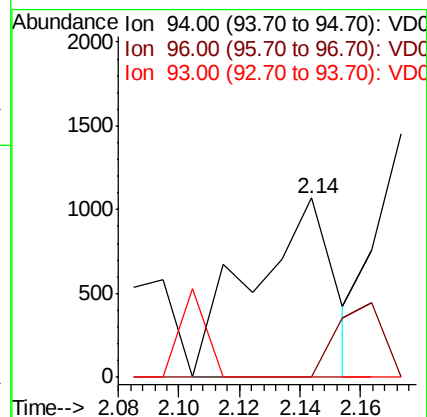
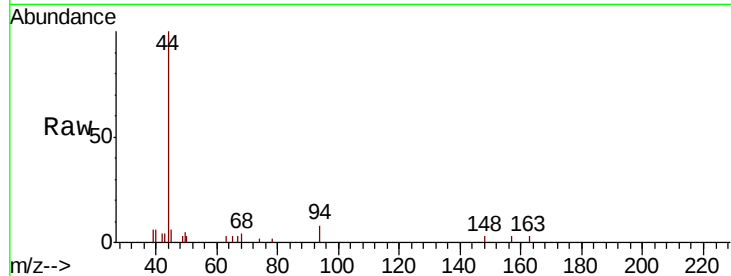
Tot Ion: 94 Resp: 1998

Ion Ratio Lower Upper

94 100

96 0.0 74.2 111.2#

93 0.0 17.8 26.6#



#11

Tert butyl alcohol

Concen: 2.080 ug/l

RT: 4.10 min Scan# 272

Delta R.T. 0.02 min

Lab File: VD063176.D

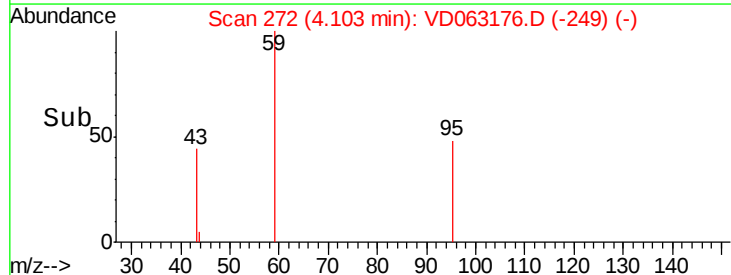
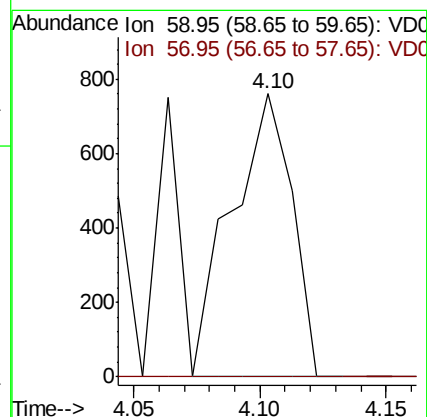
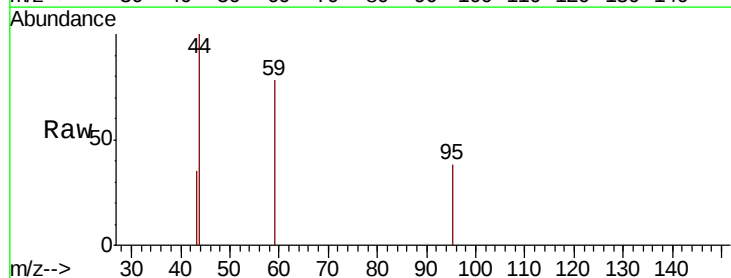
Acq: 22 Jul 2019 14:52

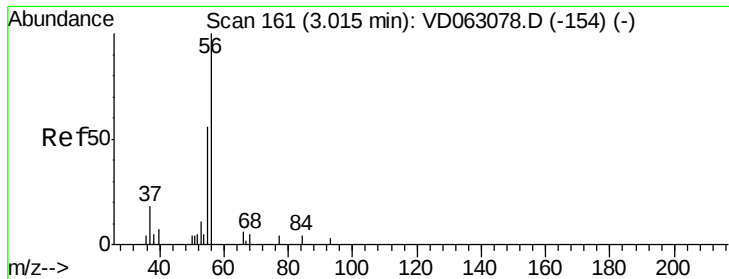
Tgt Ion: 59 Resp: 1268

Ion Ratio Lower Upper

59 100

57 0.0 6.4 9.6#





#13

Acrolein

Concen: 1.022 ug/l

RT: 3.07 min Scan# 167

Delta R.T. 0.05 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

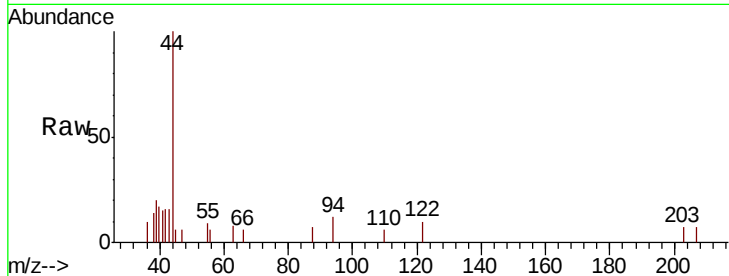
TP-2

Tot Ion: 56 Resp: 188

Ion Ratio Lower Upper

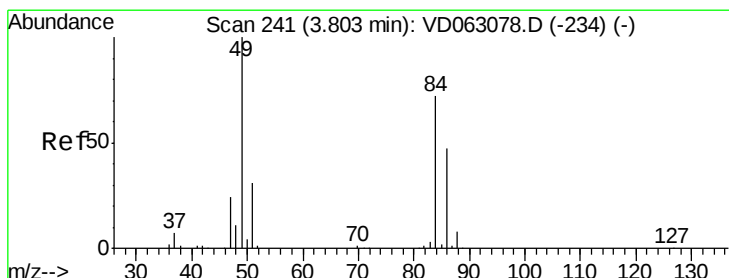
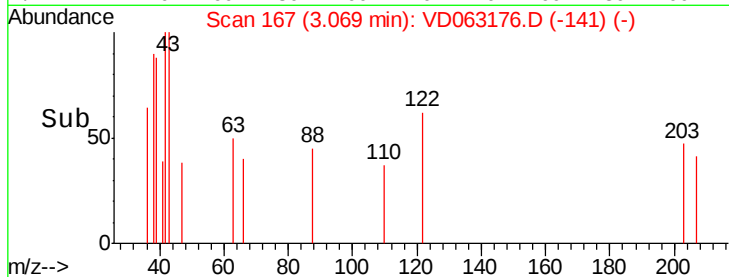
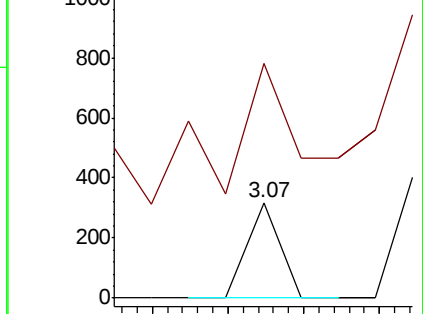
56 100

55 246.2 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#20

Methylene Chloride

Concen: 2.346 ug/l

RT: 3.82 min Scan# 243

Delta R.T. 0.01 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Tgt Ion: 84 Resp: 22614

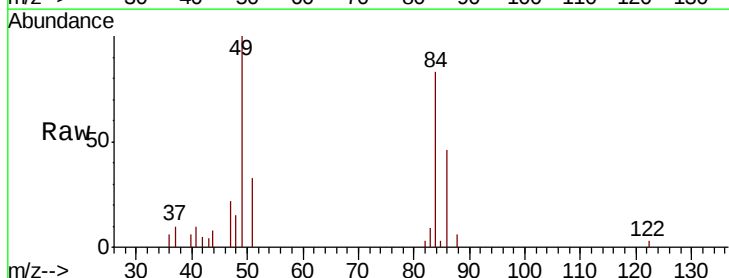
Ion Ratio Lower Upper

84 100

49 121.0 110.5 165.7

51 39.5 34.6 51.8

86 55.2 51.6 77.4

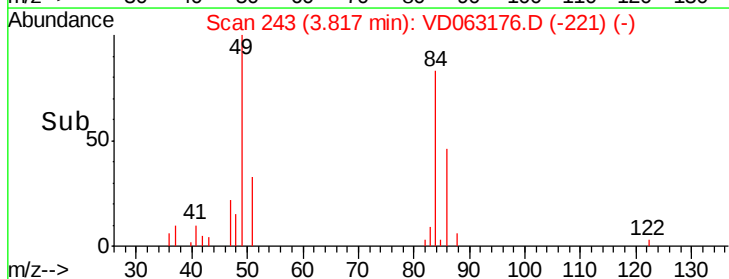
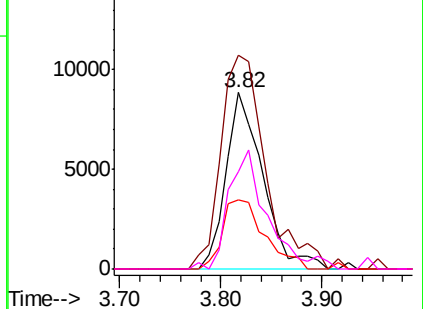


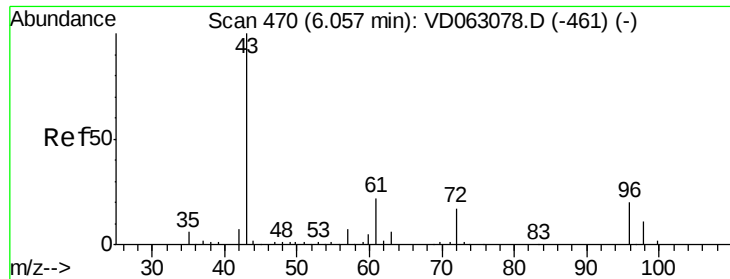
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 3.914 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.12 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

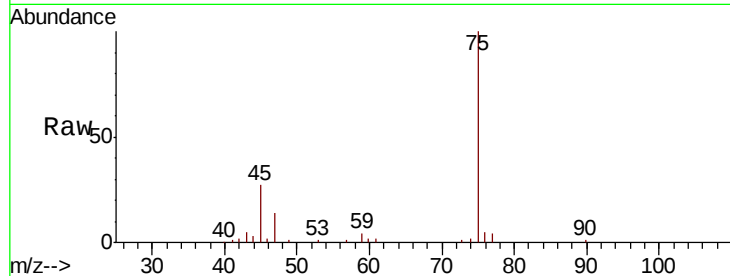
Instrument :
MSVOA_D
ClientSampled :
TP-2

Tot Ion: 43 Resp: 9538

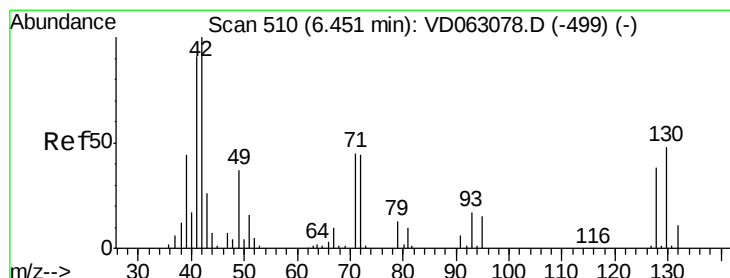
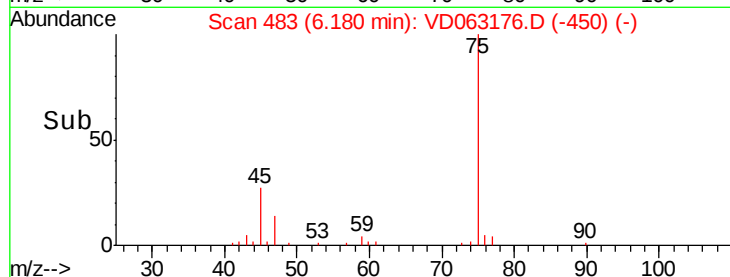
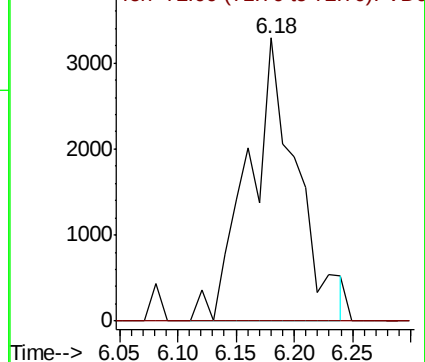
Ion Ratio Lower Upper

43 100

72 0.0 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.257 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

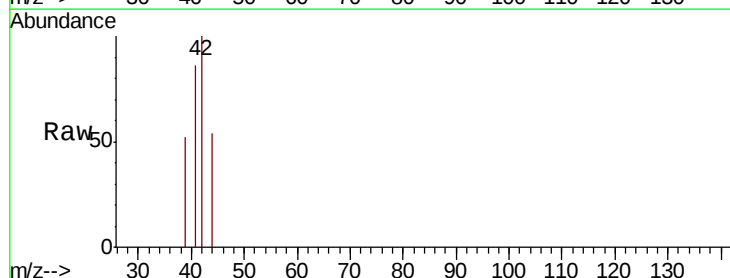
Tgt Ion: 42 Resp: 1389

Ion Ratio Lower Upper

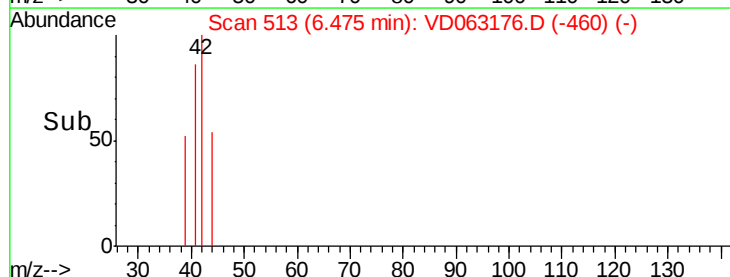
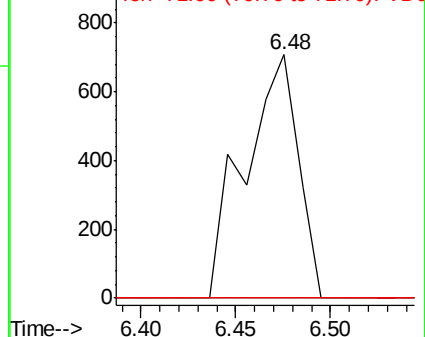
42 100

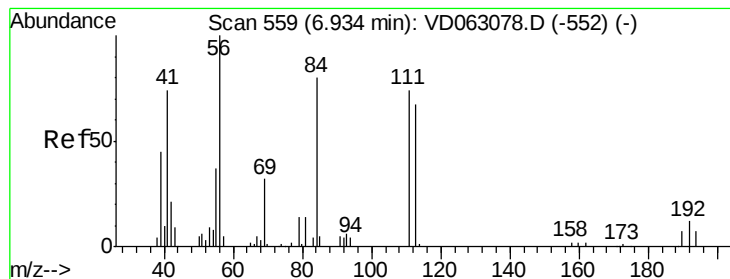
72 0.0 33.7 50.5#

71 0.0 34.2 51.2#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.890 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.11 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :
MSVOA_D
ClientSampleId :
TP-2

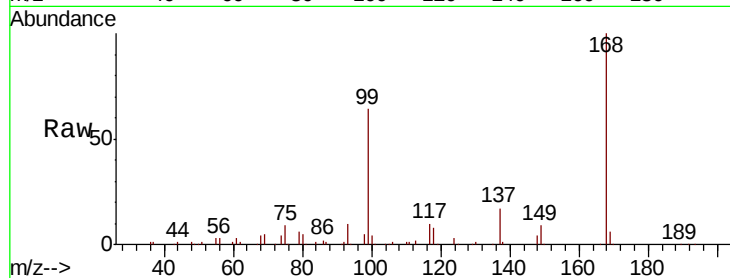
Tot Ion: 56 Resp: 19004

Ion Ratio Lower Upper

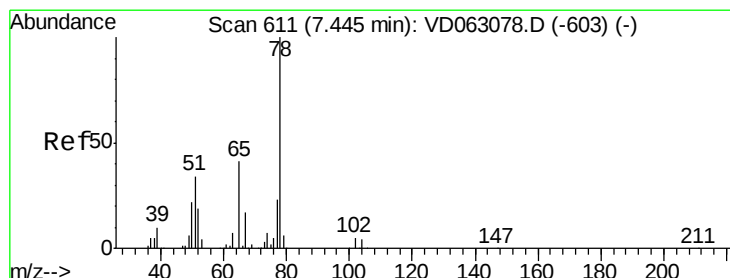
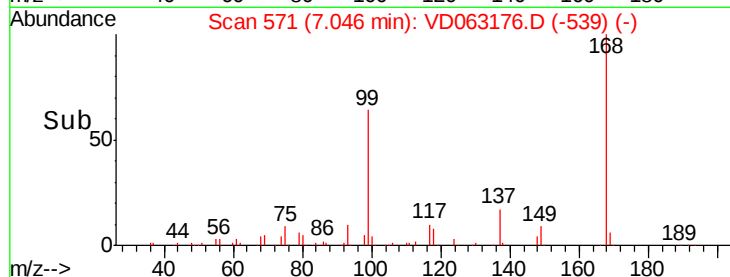
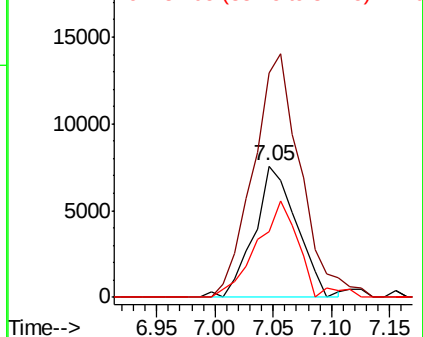
56 100

69 170.8 25.3 37.9#

84 50.1 64.2 96.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC



#33

1,2-Dichloroethane-d4

Concen: 62.379 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.01 min

Lab File: VD063176.D

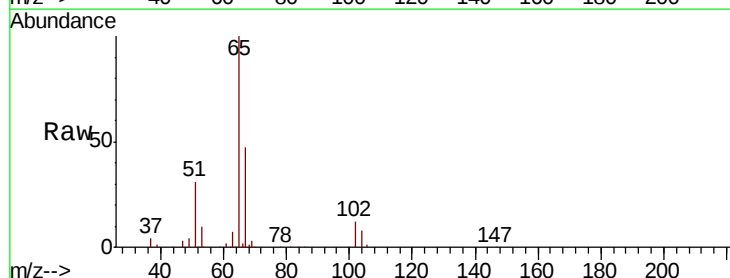
Acq: 22 Jul 2019 14:52

Tgt Ion: 65 Resp: 659034

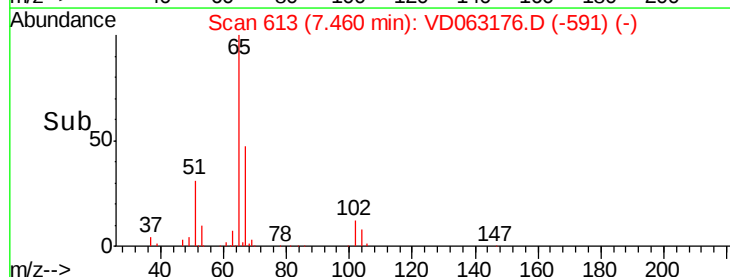
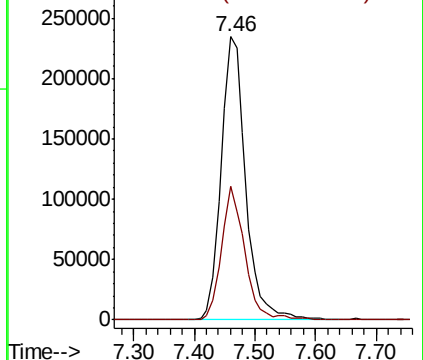
Ion Ratio Lower Upper

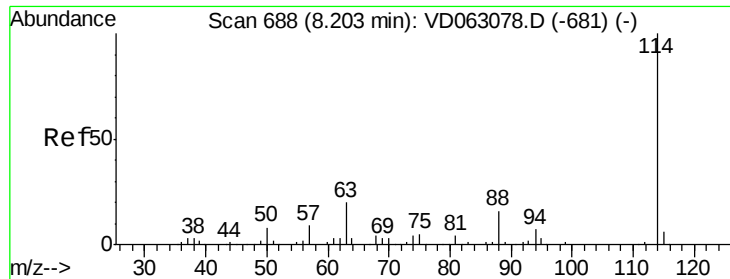
65 100

67 47.2 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

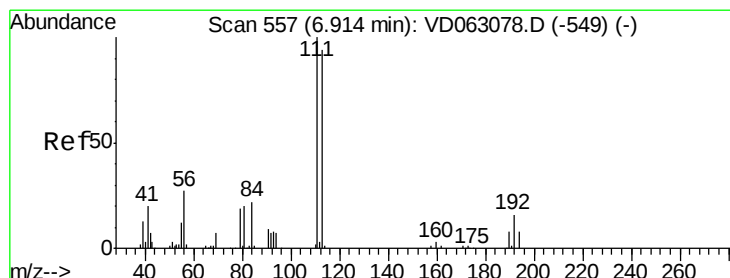
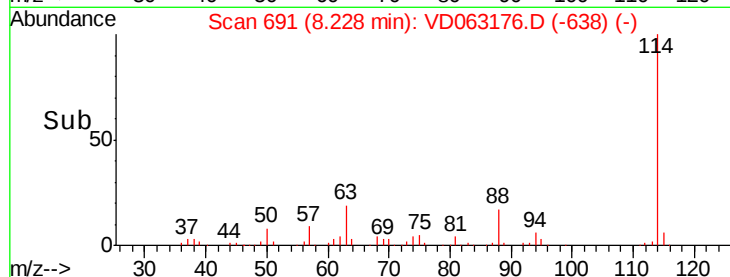
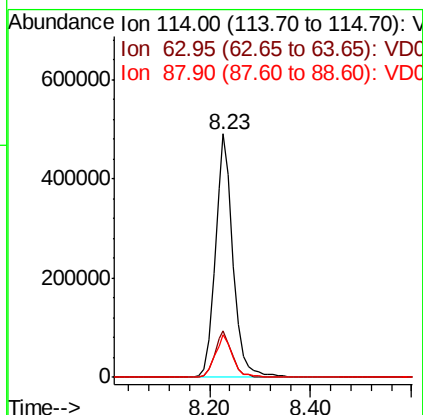
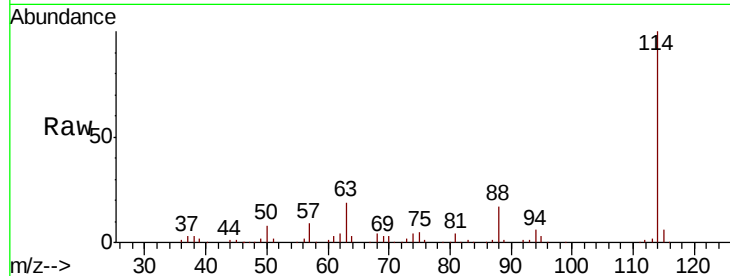




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063176.D
 Acq: 22 Jul 2019 14:52

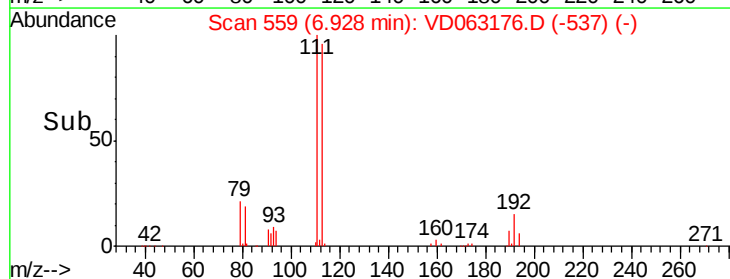
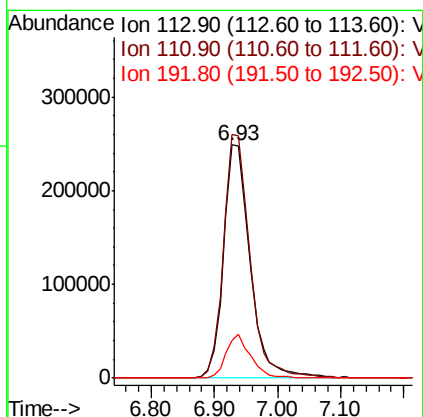
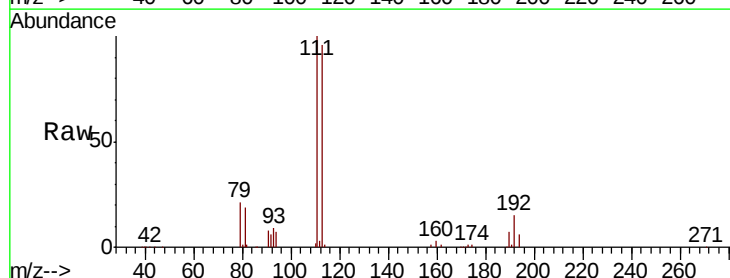
Instrument :
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 TP-2

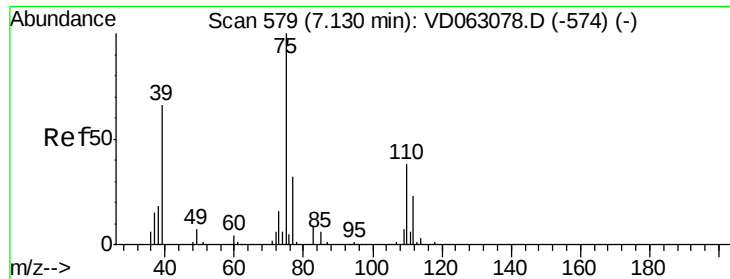
Tot Ion:114 Resp: 1201325
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.6
 88 17.3 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 60.977 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD063176.D
 Acq: 22 Jul 2019 14:52

Tgt Ion:113 Resp: 729623
 Ion Ratio Lower Upper
 113 100
 111 104.5 84.8 127.2
 192 16.1 13.4 20.0





#36

1,1-Dichloropropene

Concen: 4.941 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.08 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

TP-2

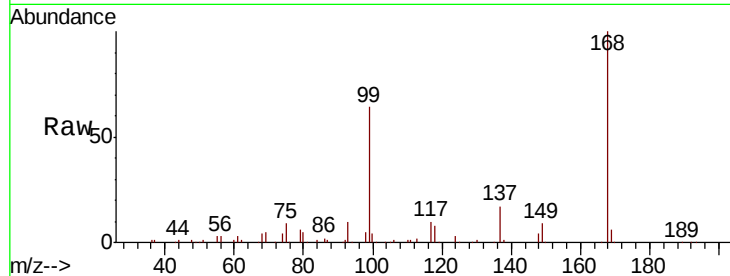
Tot Ion: 75 Resp: 66764

Ion Ratio Lower Upper

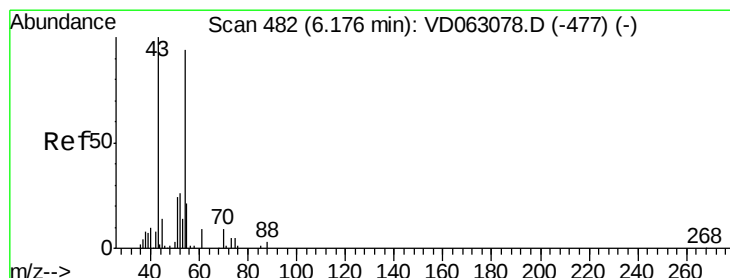
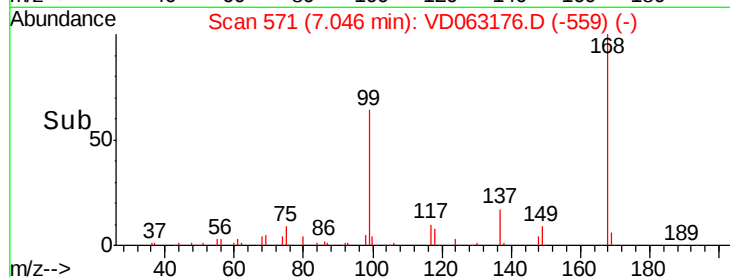
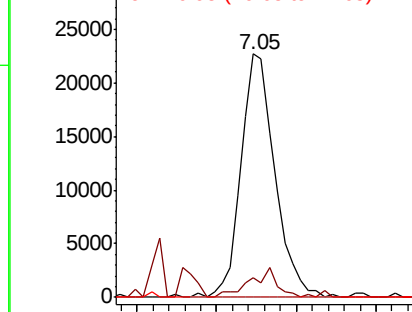
75 100

110 8.2 18.9 56.5#

77 0.0 25.2 37.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.650 ug/l

RT: 6.18 min Scan# 483

Delta R.T. 0.00 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

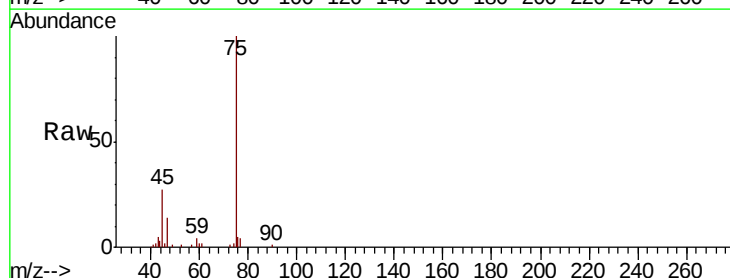
Tgt Ion: 43 Resp: 9539

Ion Ratio Lower Upper

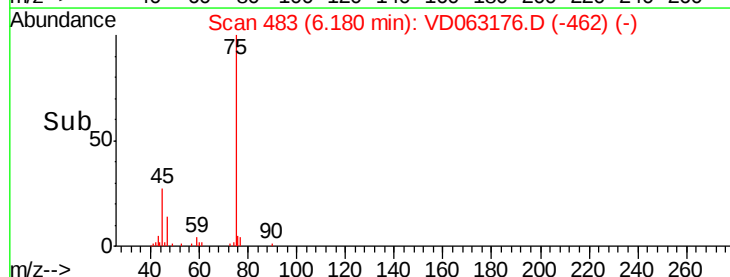
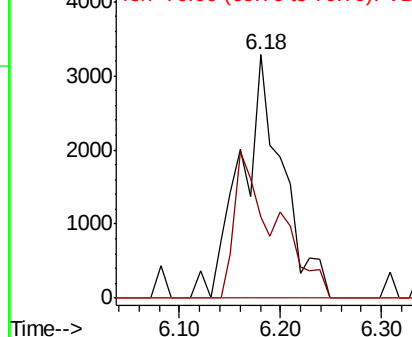
43 100

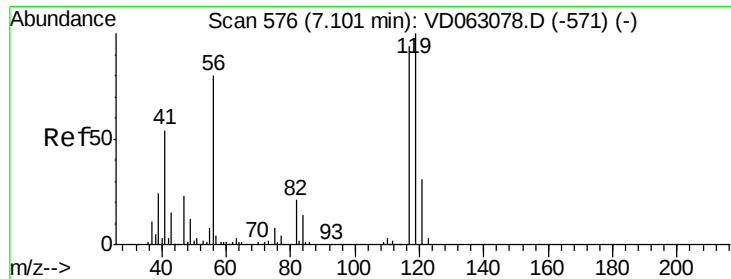
61 33.5 10.6 16.0#

70 0.0 6.6 9.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.153 ug/l

RT: 7.06 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

TP-2

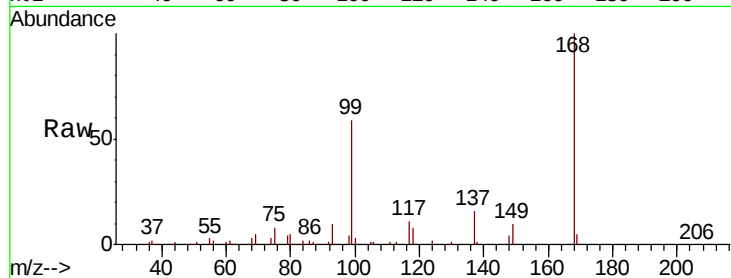
Tot Ion:117 Resp: 85268

Ion Ratio Lower Upper

117 100

119 3.9 80.0 120.0#

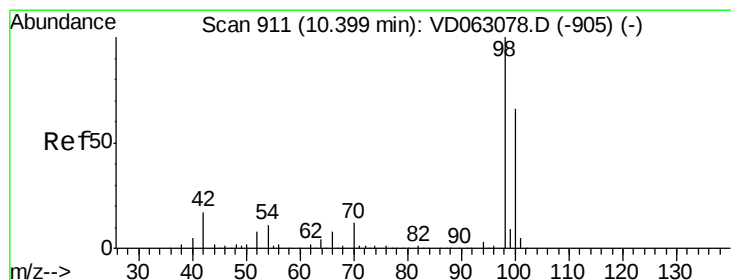
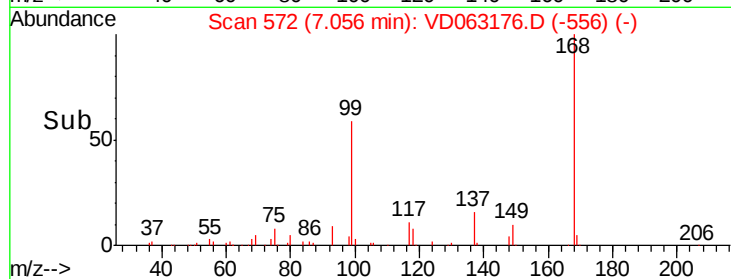
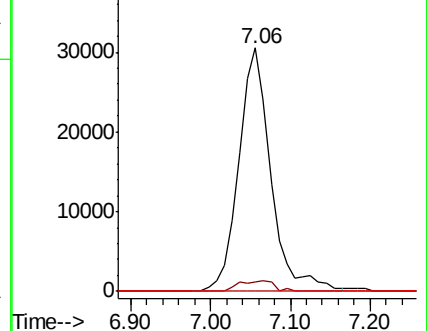
121 0.0 25.0 37.4#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 57.037 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD063176.D

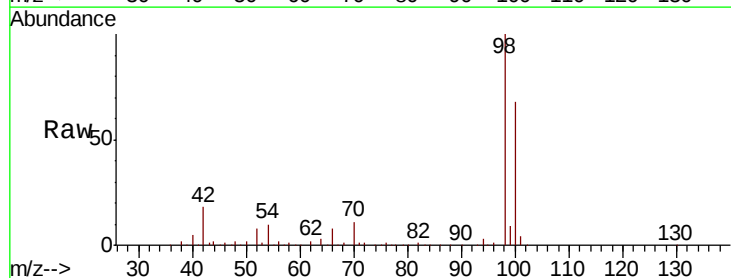
Acq: 22 Jul 2019 14:52

Tgt Ion: 98 Resp: 1465953

Ion Ratio Lower Upper

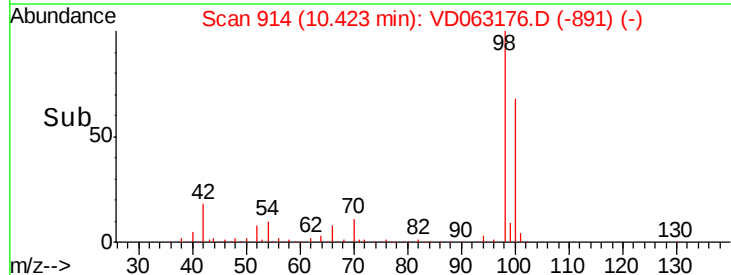
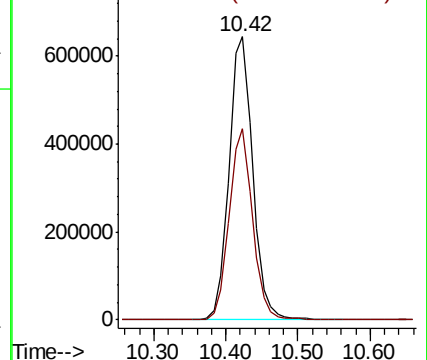
98 100

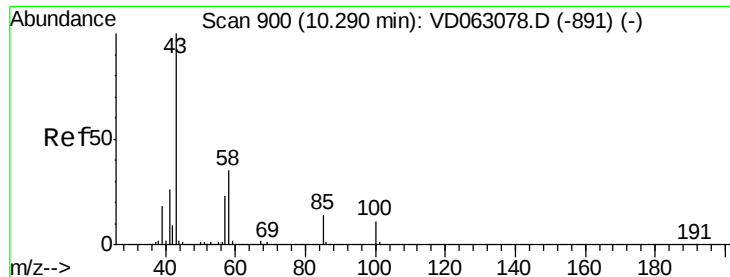
100 67.6 53.5 80.3



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.712 ug/l

RT: 10.41 min Scan# 913

Delta R.T. 0.12 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

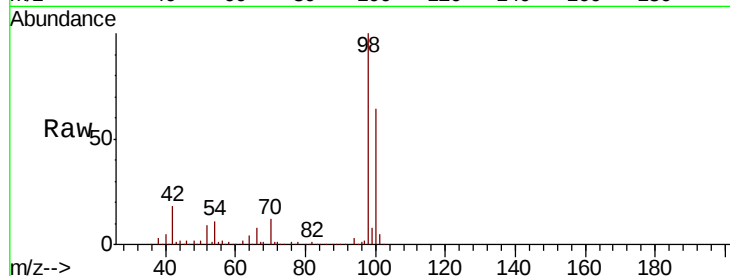
TP-2

Tot Ion: 43 Resp: 9411

Ion Ratio Lower Upper

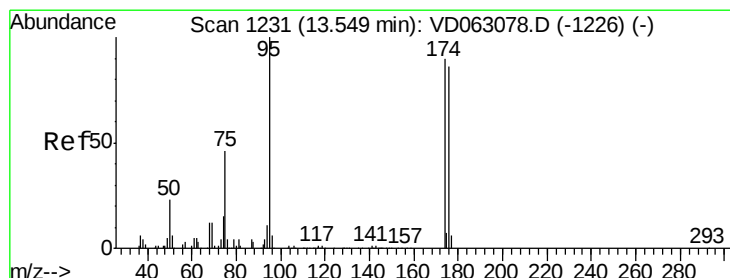
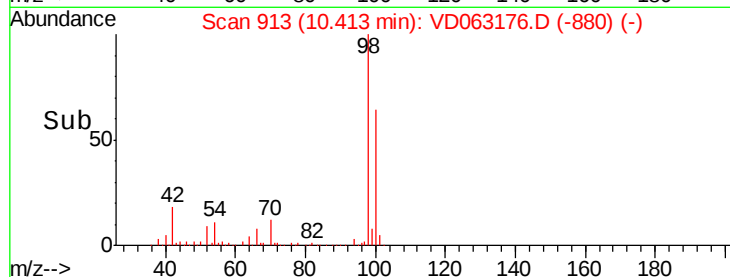
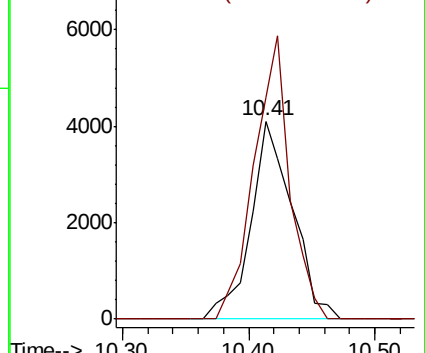
43 100

58 112.5 27.8 41.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#62

4-Bromofluorobenzene

Concen: 50.977 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

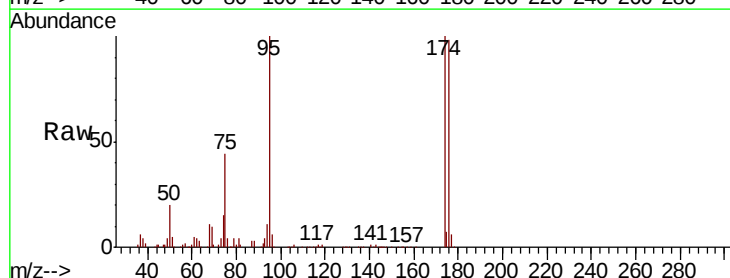
Tgt Ion: 95 Resp: 606148

Ion Ratio Lower Upper

95 100

174 99.9 0.0 180.6

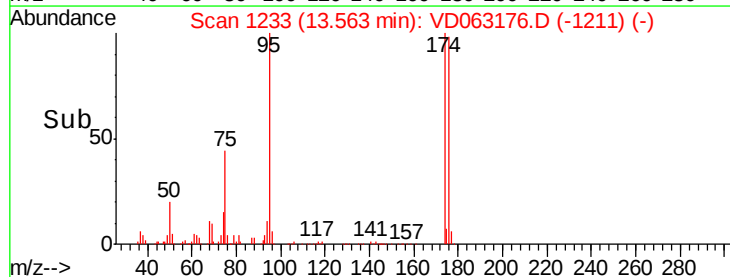
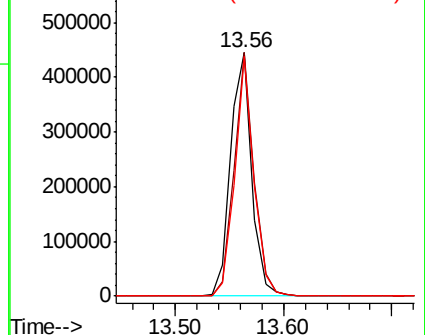
176 98.4 0.0 172.2

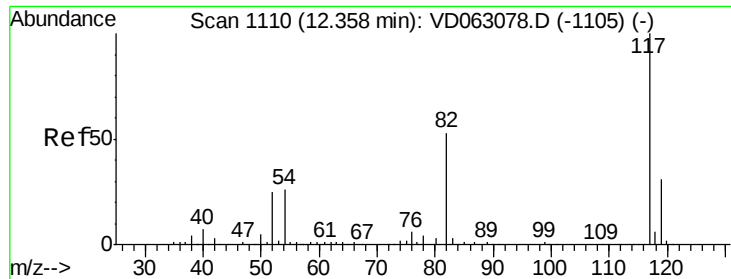


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

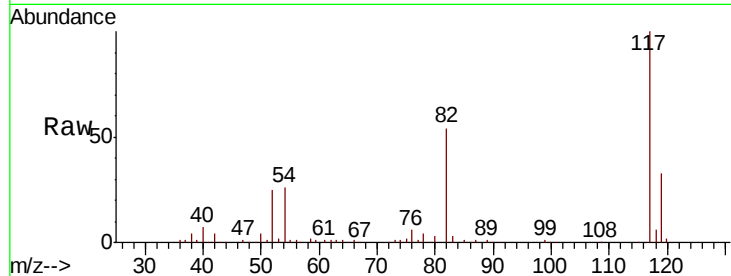




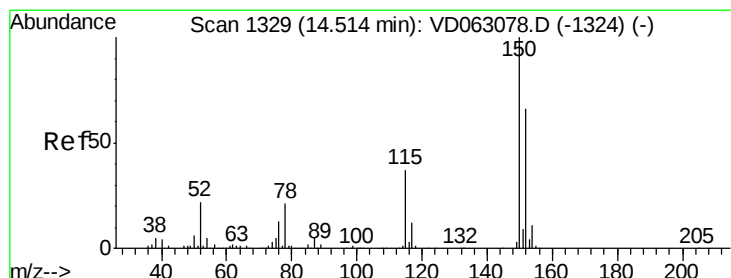
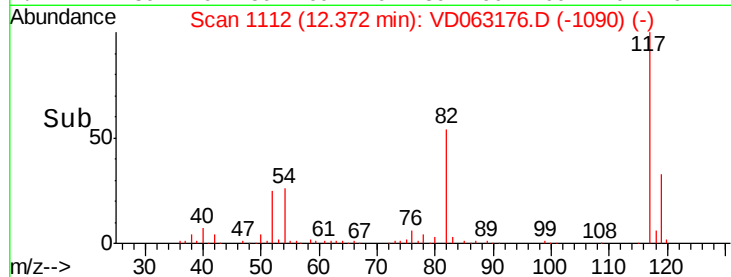
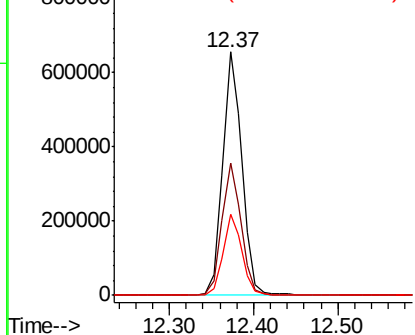
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063176.D
Acq: 22 Jul 2019 14:52

Instrument :
MSVOA_D
ClientSampled :
TP-2

Tot Ion:117 Resp: 1037689
Ion Ratio Lower Upper
117 100
82 54.1 42.3 63.5
119 33.1 25.2 37.8

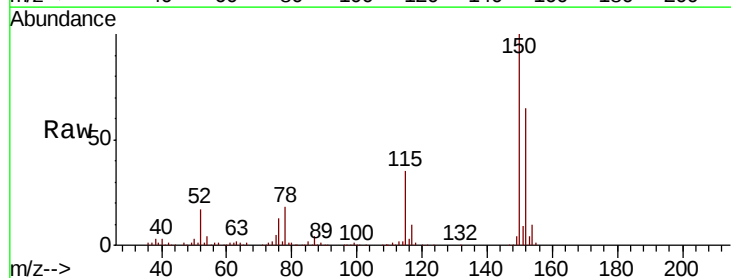


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

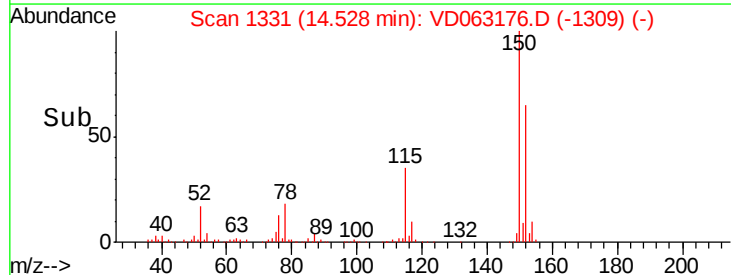
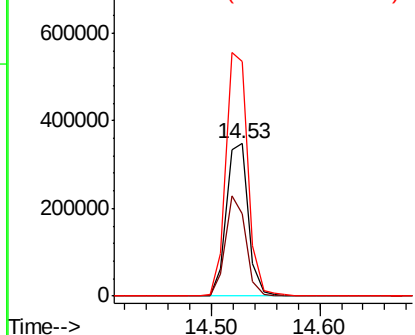


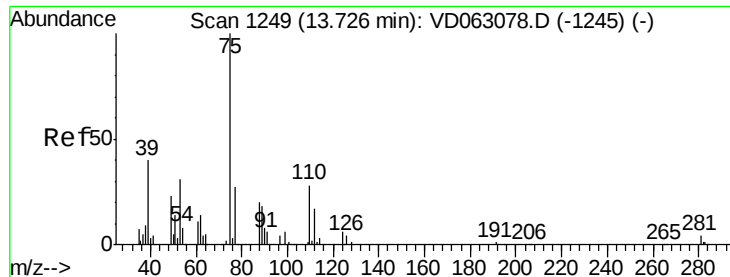
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063176.D
Acq: 22 Jul 2019 14:52

Tgt Ion:152 Resp: 494035
Ion Ratio Lower Upper
152 100
115 54.0 28.9 86.8
150 154.3 0.0 313.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 34.926 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.16 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

Instrument :

MSVOA_D

ClientSampleId :

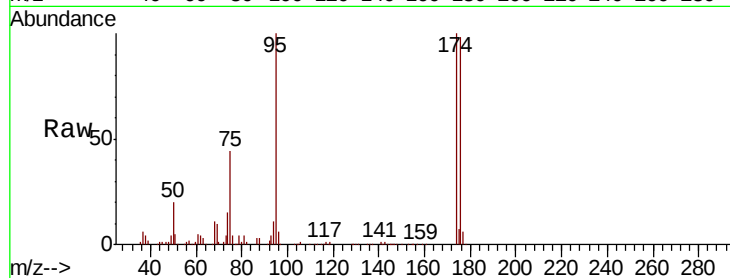
TP-2

Tot Ion: 75 Resp: 265430

Ion Ratio Lower Upper

75 100

77 0.5 16.3 48.8#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

200000

150000

100000

50000

0

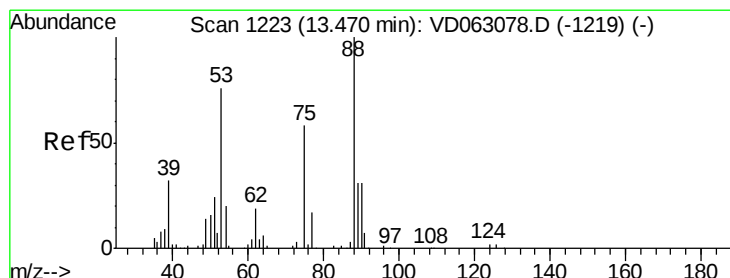
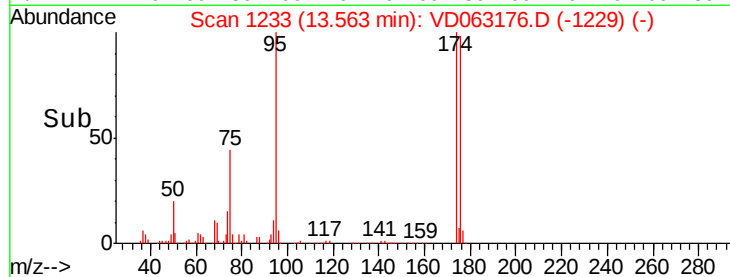
13.50

13.55

13.60

13.65

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 143.352 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD063176.D

Acq: 22 Jul 2019 14:52

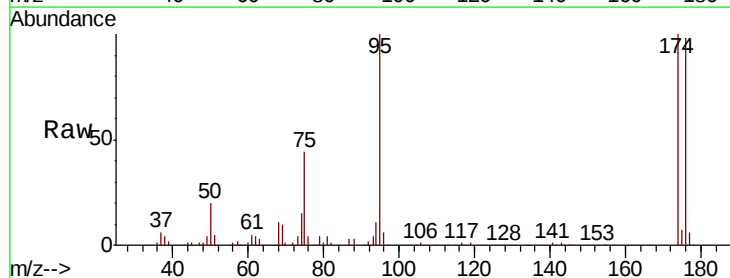
Tgt Ion: 75 Resp: 286887

Ion Ratio Lower Upper

75 100

53 0.0 104.4 156.6#

89 0.0 43.1 64.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

250000

200000

150000

100000

50000

0

13.50

13.55

13.60

Time-->

